

Date: Tue, 13 Apr 93 23:30:56 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #459
To: Info-Hams

Info-Hams Digest Tue, 13 Apr 93 Volume 93 : Issue 459

Today's Topics:

ARRL DX Bulletin #18 - 13 April 1993
Daily Solar Geophysical Data Broadcast for 13 April
DX BULLETIN 18 ARLD018
Give 10 meters to CB!?
Gray line Dxing
Kenwood TM-732 Questions
Need 2M antenna solutions in marine enviro
STS-56 Rise & Set Times

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 13 Apr 1993 18:55:57 MDT
From: access.usask.ca!kakwa.ucs.ualberta.ca!alberta!adec23!ve6mgs!
usenet@decwrl.dec.com
Subject: ARRL DX Bulletin #18 - 13 April 1993
To: info-hams@ucsd.edu

ZCZC AE44
QST de W1AW
DX Bulletin 18 ARLD018
~From ARRL Headquarters
Newington CT April 13, 1993
To all radio amateurs

SB DX ARL ARLD018
ARLD018 4N5 YU5 OK OL OM news

Macedonia (former Yugoslav republic), Czech Republic, Slovak Republic added to DXCC Countries List -- Czechoslovakia deleted

Today, the ARRL Awards Committee voted unanimously to accept a recommendation of the ARRL DX Advisory Committee (DXAC) to add Macedonia (former Yugoslav rep) (4N5, YU5) for contacts made 8 September 1991 and after. This is based on DXCC Rules Section II, Point 1 (Government).

The Awards Committee also voted unanimously to accept a DXAC recommendation based on DXCC Rules Section III (c) (Partition) to delete Czechoslovakia (OK-OM) effective 1 January 1993. (Contacts made 31 December 1992 and before count for this deleted country.)

Replacing Czechoslovakia, effective 1 January 1993, in accordance with the DXAC recommendation, are the Czech Republic (OK, OL) and the Slovak Republic (OM). These additions to the DXCC Countries List are by reason of Section II, Point 1 (Government) of the DXCC rules.

The DXCC Desk will accept QSL cards for these three new countries starting 1 June 1993. QSL cards received received at the DXCC Desk before 1 June 1993 will be returned without action.

NNNN

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| | |
|-----------------------------|---|
| Jim Reisert | Internet: reisert@mast.enet.dec.com |
| Digital Equipment Corp. | UUCP: ...decwrl!mast.enet.dec.com!reisert |
| 146 Main Street - ML03-6/C9 | Voice: 508-493-5747 |
| Maynard, MA 01754 | FAX: 508-493-0395 |

Date: 14 Apr 93 04:48:01 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 13 April
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 103, 04/13/93
10.7 FLUX=097.2 90-AVG=132 SSN=039 BKI=2555 3332 BAI=025
BGND-XRAY=B2.7 FLU1=4.6E+05 FLU10=9.8E+03 PKI=2556 4433 PAI=031
BOU-DEV=014,095,088,080,029,023,027,014 DEV-AVG=046 NT SWF=00:000
XRAY-MAX= B9.5 @ 2251UT XRAY-MIN= B2.5 @ 1630UT XRAY-AVG= B3.4
NEUTN-MAX= +003% @ 2135UT NEUTN-MIN= -002% @ 1450UT NEUTN-AVG= +0.1%
PCA-MAX= +0.1DB @ 2115UT PCA-MIN= -0.3DB @ 2350UT PCA-AVG= -0.0DB
BOUTF-MAX=55406NT @ 0528UT BOUTF-MIN=55347NT @ 1012UT BOUTF-AVG=55387NT
GOES7-MAX=E:+119NT@ 0644UT GOES7-MIN=N:-029NT@ 0645UT G7-AVG=+079,+049,+010

GOES6-MAX=P:+129NT@ 1454UT GOES6-MIN=N:-116NT@ 0446UT G6-AVG=+092,-012,-058
FLUXFCST=STD:095,090,085;SESC:095,090,085 BAI/PAI-FCST=010,010,015/015,015,020
KFCST=2225 4221 2225 4221 27DAY-AP=019,018 27DAY-KP=3344 3334 5453 3222
WARNINGS=
ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 12 APR 93 was 55.0.
The Full Kp Indices for 12 APR 93 are: 4o 5- 3o 2- 2- 2- 2o 2o

Date: Wed, 14 Apr 93 02:20:23 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!
cis.ohio-state.edu!mstar!n8emr!bulletin@network.UCSD.EDU
Subject: DX BULLETIN 18 ARLD018
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

ZCZC AE44
QST DE W1AW
DX BULLETIN 18 ARLD018
FROM ARRL HEADQUARTERS NEWINGTON CT
APRIL 13, 1993
RELAYED BY KB8NW/OBS & BARF-80 BBS
TO ALL RADIO AMATEURS

SB DX ARL ARLD018
ARLD018 4N5 YU5 OK OL OM NEWS

MACEDONIA (FORMER YUGOSLAV REPUBLIC), CZECH REPUBLIC, SLOVAK
REPUBLIC ADDED TO DXCC COUNTRIES LIST -- CZECHOSLOVAKIA DELETED

TODAY, THE ARRL AWARDS COMMITTEE VOTED UNANIMOUSLY TO ACCEPT A
RECOMMENDATION OF THE ARRL DX ADVISORY COMMITTEE (DXAC) TO ADD
MACEDONIA (FORMER YUGOSLAV REP) (4N5, YU5) FOR CONTACTS MADE 8
SEPTEMBER 1991 AND AFTER. THIS IS BASED ON DXCC RULES SECTION II,
POINT 1 (GOVERNMENT).

THE AWARDS COMMITTEE ALSO VOTED UNANIMOUSLY TO ACCEPT A DXAC
RECOMMENDATION BASED ON DXCC RULES SECTION III (C) (PARTITION) TO
DELETE CZECHOSLOVAKIA (OK-OM) EFFECTIVE 1 JANUARY 1993. (CONTACTS
MADE 31 DECEMBER 1992 AND BEFORE COUNT FOR THIS DELETED COUNTRY.)

REPLACING CZECHOSLOVAKIA, EFFECTIVE 1 JANUARY 1993, IN ACCORDANCE WITH THE DXAC RECOMMENDATION, ARE THE CZECH REPUBLIC (OK, OL) AND THE SLOVAK REPUBLIC (OM). THESE ADDITIONS TO THE DXCC COUNTRIES LIST ARE BY REASON OF SECTION II, POINT 1 (GOVERNMENT) OF THE DXCC RULES.

THE DXCC DESK WILL ACCEPT QSL CARDS FOR THESE THREE NEW COUNTRIES STARTING 1 JUNE 1993. QSL CARDS RECEIVED BEFORE 1 JUNE 1993 WILL BE RETURNED WITHOUT ACTION.
NNNN

Date: Wed, 14 Apr 1993 01:11:13 GMT
From: swrinde!cs.utexas.edu!uwm.edu!rpi!cary112.its.rpi.edu!
mellob@network.UCSD.EDU
Subject: Give 10 meters to CB!?
To: info-hams@ucsd.edu

(I can tell already, this subject is going to EXPOLDE!)

bly@btree.uucp (Roger Bly) KA6MWT writes:

>I think that we should reallocate a big chunk of 10m to CB.

Why on earth would anyone want to do that!

usenet@ttinews.tti.com (Usenet Admin) (Erik Sorgatz) writes

>I have absolutly no objections to allocating the CBers some more
>space, so long as it does NOT impact Amateur bands.

Well, this is a little better.

In my opinion, it would be O.K. to extend the Citizens Band

- IF -

- 1.) CB users used what they already have in a more respectable manner.
- 2.) They did NOT get any of what is currently the Amateur 10 meter band, 28.0 to 29.7.
- 3.) The "buffer zone" between 27.405 and 28.000 remains intact. I think there is an absolute neccesity for these "buffers" between allocations. Just think how much further into the 10 meter

band bootleggers would go if they could initially
make it to 27.999 BEFORE modifying their radios!

So maybe if CBer's improved their operating practices a little,
a little extra room on the low side wouldn't hurt. As long as
there is still some sort of buffer zone between the next
alloaction. (Is it 12 meters or is there something else in there?)

BTW, I am NOT plugging CBer's. There are some very nice
people out there and I am a CBer myself.

-Brett Mellor -- mellob@rpi.edu

Date: Tue, 13 Apr 1993 13:43:25 GMT
From: haven.umd.edu!darwin.sura.net!knuth.mtsu.edu!raider!theporch!jackatak!
jackhill@uunet.uu.net
Subject: Gray line Dxing
To: info-hams@ucsd.edu

jeffj@cbnewsm.cb.att.com (jeffrey.n.jones) writes:
> the other day I made my first attempt at gray line dxing from here
> in the San Francisco bay area. I worked a Taiwan ham on 40 meters
> at around 0100UTC (6:00am) for my only second DX contact on 40 meters.
 ^^^^ ^^

No matter your clock is twelve hours off...you made the contact.

Congratulations!

73

+-----+
| Jack GF Hill |Voice: (615) 459-2636 - Bicycling and SCUBA Diving |
| P. O. Box 1685 |Modem: (615) 377-5980 - Compu\$erve 76427,31 |
| Brentwood, TN 37024|jackhill@jackatak.raider.net - Ham Call: W4PPT |
+-----+

Date: 14 Apr 93 04:44:58 GMT
From: olivea!charnel!jmeyers@uunet.uu.net
Subject: Kenwood TM-732 Questions
To: info-hams@ucsd.edu

Howdy Folks!

I just bought the Kenwood 732 mobile dual-band radio and have found the
manual "less than clear" about topics such as crossband repeat, remote

control, etc...

Do you have these functions figured out? Found any undocumented ones?

I was wondering why I haven't heard more about this radio-- seems to be a great combination of features and price!

Please send me mail if you have anything to share, or anything to ask...

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=====
| Jeff Meyers      | jmeyers@ecst.csuchico.edu      | 39x43'N 121x48'W |
| Chico, Ca 95926 | KD6DIS@KE6LW.#NOCAL.CA.USA.NA | Grid: CN80-CM99 ?? |
=====
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Date: Wed, 14 Apr 93 03:32:00 GMT
From: walter!porthos!prefect!mgsail@uunet.uu.net
Subject: Need 2M antenna solutions in marine enviro
To: info-hams@ucsd.edu

In article <regmad.734725732@gsusgi1.gsu.edu> regmad@gsusgi2.gsu.edu (Michael de Kraker) writes:

> Any suggestions for an appropriate 2M antenna and mounting
> for a fiberglass sailboat.

Try a standard marine VHF antenna. I use my HT into my VHF antenna and it works very well. The match is under 1.5:1.
N2OWL

Date: 14 Apr 93 03:20:19 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-56 Rise & Set Times
To: info-hams@ucsd.edu

SB SAREX@AMSAT \$STS-56.014
STS-56 East Coast Rise/Set Times, 4/14-16

Below are the rise and set times for STS-56 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

STS-56 Element Set GSFC-019

Washington D.C.

STS-56 Element Set GSFC-019

[illegible]

Atlanta, GA

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 03:06:44 | 03:10:44 | 03:14 | 15 | A-E | 95 |
| 14Apr93 | 04:40:11 | 04:44:14 | 04:47 | 16 | A-W | 96 |
| 14Apr93 | 11:02:06 | 11:05:37 | 11:08 | 8 | D-E | 100 |
| 14Apr93 | 12:34:58 | 12:39:28 | 12:43 | 46 | D-W | 101 |
| 15Apr93 | 03:13:12 | 03:17:36 | 03:21 | 44 | A-E | 111 |
| 15Apr93 | 04:48:00 | 04:51:26 | 04:54 | 8 | A-W | 112 |
| 15Apr93 | 11:08:39 | 11:12:49 | 11:16 | 16 | D-E | 116 |
| 15Apr93 | 12:42:14 | 12:46:19 | 12:49 | 16 | D-W | 117 |
| 16Apr93 | 03:20:02 | 03:24:28 | 03:28 | 52 | A-W | 127 |
| *16Apr93 | 11:15:19 | 11:19:48 | 11:23 | 38 | D-E | 132 |
| *16Apr93 | 12:49:53 | 12:53:02 | 12:55 | 6 | D-W | 133 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Miami, FL

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 03:05:08 | 03:09:34 | 03:13 | 85 | A-E | 95 |
| 14Apr93 | 12:37:09 | 12:41:40 | 12:45 | 70 | D-W | 101 |
| 15Apr93 | 01:40:11 | 01:43:16 | 01:45 | 6 | A-E | 110 |
| 15Apr93 | 03:12:18 | 03:16:32 | 03:20 | 26 | A-W | 111 |
| 15Apr93 | 11:11:16 | 11:14:59 | 11:18 | 9 | D-E | 116 |
| 15Apr93 | 12:44:22 | 12:48:33 | 12:52 | 19 | D-W | 117 |
| 16Apr93 | 01:45:55 | 01:49:59 | 01:53 | 17 | A-E | 126 |
| 16Apr93 | 03:19:53 | 03:23:32 | 03:26 | 10 | A-W | 127 |
| *16Apr93 | 11:17:39 | 11:21:59 | 11:25 | 23 | D-E | 132 |
| *16Apr93 | 12:52:02 | 12:55:17 | 12:58 | 6 | D-W | 133 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Compiled by Dan Schultz, N8FGV

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
/EX

SB SAREX@AMSAT \$STS-56.015

STS-56 Central US Rise/Set Times, 4/14-16

Below are the rise and set times for STS-56 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Chicago, IL

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 04:40:48 | 04:45:17 | 04:49 | 84 | A-E | 96 |
| 14Apr93 | 06:15:32 | 06:19:16 | 06:22 | 10 | A-W | 97 |
| 14Apr93 | 10:59:28 | 11:03:46 | 11:07 | 20 | D-E | 100 |
| 14Apr93 | 12:33:03 | 12:37:22 | 12:41 | 24 | D-W | 101 |
| 15Apr93 | 03:15:12 | 03:18:58 | 03:22 | 11 | A-E | 111 |
| 15Apr93 | 04:47:53 | 04:52:17 | 04:56 | 37 | A-W | 112 |
| 15Apr93 | 06:23:17 | 06:26:35 | 06:29 | 7 | A-W | 113 |
| 15Apr93 | 09:33:12 | 09:36:36 | 09:39 | 7 | D-E | 115 |
| 15Apr93 | 11:06:21 | 11:10:52 | 11:14 | 39 | D-E | 116 |
| 15Apr93 | 12:40:25 | 12:44:11 | 12:47 | 11 | D-W | 117 |
| 16Apr93 | 03:21:25 | 03:25:41 | 03:29 | 25 | A-E | 127 |
| 16Apr93 | 04:55:08 | 04:59:19 | 05:03 | 19 | A-W | 128 |
| 16Apr93 | 09:39:57 | 09:43:49 | 09:47 | 11 | D-E | 131 |
| *16Apr93 | 11:13:13 | 11:17:48 | 11:21 | 80 | D-W | 132 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Huntsville, AL

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|---------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 03:07:00 | 03:10:43 | 03:13 | 10 | A-E | 95 |
| 14Apr93 | 04:39:49 | 04:44:05 | 04:47 | 24 | A-W | 96 |
| 14Apr93 | 11:01:36 | 11:05:04 | 11:08 | 7 | D-E | 100 |
| 14Apr93 | 12:34:27 | 12:38:58 | 12:43 | 59 | D-W | 101 |
| 15Apr93 | 03:13:15 | 03:17:32 | 03:21 | 27 | A-E | 111 |
| 15Apr93 | 04:47:25 | 04:51:13 | 04:54 | 11 | A-W | 112 |
| 15Apr93 | 11:08:10 | 11:12:16 | 11:15 | 15 | D-E | 116 |
| 15Apr93 | 12:41:38 | 12:45:51 | 12:49 | 20 | D-W | 117 |
| 16Apr93 | 03:19:54 | 03:24:21 | 03:28 | 89 | A-E | 127 |
| 16Apr93 | 04:55:21 | 04:58:23 | 05:00 | 5 | A-W | 128 |

*16Apr93 11:14:49 11:19:17 11:23 33 D-E 132
 *16Apr93 12:49:08 12:52:34 12:55 7 D-W 133
 *Landing scheduled for 11:33 UTC in Florida on orbit number 132

Houston, TX

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 04:37:28 | 04:41:50 | 04:45 | 40 | A-W | 96 |
| 14Apr93 | 12:34:32 | 12:38:42 | 12:42 | 17 | D-E | 101 |
| 14Apr93 | 14:08:17 | 14:12:08 | 14:15 | 12 | D-W | 102 |
| 15Apr93 | 03:11:32 | 03:15:26 | 03:18 | 13 | A-E | 111 |
| 15Apr93 | 04:44:55 | 04:48:54 | 04:52 | 15 | A-W | 112 |
| 15Apr93 | 12:41:15 | 12:45:45 | 12:49 | 46 | D-E | 117 |
| 16Apr93 | 03:17:50 | 03:22:12 | 03:26 | 39 | A-E | 127 |
| 16Apr93 | 04:52:47 | 04:55:59 | 04:58 | 6 | A-W | 128 |
| *16Apr93 | 11:15:33 | 11:18:48 | 11:21 | 6 | D-E | 132 |
| *16Apr93 | 12:48:08 | 12:52:37 | 12:56 | 45 | D-W | 133 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Seattle, WA

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 06:11:47 | 06:15:24 | 06:18 | 9 | A-E | 97 |
| 14Apr93 | 07:44:06 | 07:48:36 | 07:52 | 77 | A-W | 98 |
| 14Apr93 | 09:18:29 | 09:22:36 | 09:26 | 16 | A-W | 99 |
| 14Apr93 | 10:53:11 | 10:57:06 | 11:00 | 12 | D-E | 100 |
| 14Apr93 | 12:27:05 | 12:31:28 | 12:35 | 23 | D-E | 101 |
| 14Apr93 | 14:00:42 | 14:05:12 | 14:09 | 39 | D-W | 102 |
| 15Apr93 | 06:18:02 | 06:22:11 | 06:25 | 19 | A-E | 113 |
| 15Apr93 | 07:51:12 | 07:55:39 | 07:59 | 38 | A-W | 114 |
| 15Apr93 | 09:25:52 | 09:29:51 | 09:33 | 13 | A-W | 115 |
| 15Apr93 | 11:00:22 | 11:04:23 | 11:07 | 13 | D-E | 116 |
| 15Apr93 | 12:34:04 | 12:38:36 | 12:42 | 38 | D-E | 117 |
| 15Apr93 | 14:07:50 | 14:12:03 | 14:15 | 19 | D-W | 118 |
| 16Apr93 | 06:24:32 | 06:28:57 | 06:32 | 39 | A-E | 129 |
| 16Apr93 | 07:58:21 | 08:02:40 | 08:06 | 23 | A-W | 130 |
| 16Apr93 | 09:33:08 | 09:37:02 | 09:40 | 12 | D-W | 131 |
| *16Apr93 | 11:07:22 | 11:11:32 | 11:15 | 16 | D-E | 132 |

*16Apr93 12:40:58 12:45:33 12:49 76 D-E 133
 *16Apr93 14:15:04 14:18:45 14:21 9 D-W 134
 *Landing scheduled for 11:33 UTC in Florida on orbit number 132

Compiled by Dan Schultz, N8FGV
 Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
 /EX

SB SAREX@AMSAT \$STS-56.016
 STS-56 Western US Rise/Set Times, 4/14-16

Below are the rise and set times for STS-56 for selected US cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Denver, CO

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 04:38:56 | 04:42:44 | 04:46 | 11 | A-E | 96 |
| 14Apr93 | 06:11:44 | 06:16:05 | 06:19 | 31 | A-W | 97 |
| 14Apr93 | 12:31:00 | 12:35:22 | 12:39 | 23 | D-E | 101 |
| 14Apr93 | 14:04:46 | 14:08:51 | 14:12 | 16 | D-W | 102 |
| 15Apr93 | 04:45:15 | 04:49:33 | 04:53 | 27 | A-E | 112 |
| 15Apr93 | 06:19:09 | 06:23:13 | 06:26 | 16 | A-W | 113 |
| 15Apr93 | 11:04:54 | 11:08:16 | 11:11 | 6 | D-E | 116 |
| 15Apr93 | 12:37:53 | 12:42:27 | 12:46 | 55 | D-E | 117 |
| 15Apr93 | 14:12:23 | 14:15:37 | 14:18 | 6 | D-W | 118 |
| 16Apr93 | 04:51:54 | 04:56:22 | 05:00 | 78 | A-E | 128 |
| 16Apr93 | 06:26:45 | 06:30:21 | 06:33 | 9 | A-W | 129 |
| *16Apr93 | 11:11:33 | 11:15:28 | 11:18 | 11 | D-E | 132 |
| *16Apr93 | 12:44:48 | 12:49:19 | 12:53 | 49 | D-W | 133 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Albuquerque, NM

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|---------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 04:37:32 | 04:41:31 | 04:45 | 15 | A-E | 96 |
| 14Apr93 | 06:10:52 | 06:15:00 | 06:18 | 18 | A-W | 97 |

| | | | | | | |
|----------|----------|----------|-------|----|-----|-----|
| 14Apr93 | 12:32:05 | 12:35:54 | 12:39 | 10 | D-E | 101 |
| 14Apr93 | 14:05:13 | 14:09:39 | 14:13 | 33 | D-W | 102 |
| 15Apr93 | 04:43:59 | 04:48:22 | 04:52 | 40 | A-E | 112 |
| 15Apr93 | 06:18:36 | 06:22:11 | 06:25 | 9 | A-W | 113 |
| 15Apr93 | 12:38:45 | 12:43:03 | 12:46 | 21 | D-E | 117 |
| 15Apr93 | 14:12:34 | 14:16:29 | 14:19 | 13 | D-W | 118 |
| 16Apr93 | 04:50:47 | 04:55:14 | 04:59 | 58 | A-W | 128 |
| *16Apr93 | 12:45:29 | 12:50:01 | 12:54 | 55 | D-E | 133 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Los Angeles, CA

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 06:08:39 | 06:13:06 | 06:17 | 81 | A-W | 97 |
| 14Apr93 | 07:44:18 | 07:47:10 | 07:49 | 5 | A-W | 98 |
| 14Apr93 | 14:03:50 | 14:08:16 | 14:12 | 30 | D-E | 102 |
| 14Apr93 | 15:38:06 | 15:41:34 | 15:44 | 8 | D-W | 103 |
| 15Apr93 | 04:43:13 | 04:46:47 | 04:49 | 9 | A-E | 112 |
| 15Apr93 | 06:15:50 | 06:20:07 | 06:23 | 26 | A-W | 113 |
| 15Apr93 | 12:38:07 | 12:41:16 | 12:43 | 5 | D-E | 117 |
| 15Apr93 | 14:10:43 | 14:15:17 | 14:19 | 85 | D-W | 118 |
| 16Apr93 | 04:49:17 | 04:53:31 | 04:57 | 23 | A-E | 128 |
| 16Apr93 | 06:23:18 | 06:27:09 | 06:30 | 12 | A-W | 129 |
| *16Apr93 | 12:44:30 | 12:48:25 | 12:51 | 11 | D-E | 133 |
| *16Apr93 | 14:17:45 | 14:22:05 | 14:25 | 26 | D-W | 134 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Honolulu, HI

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|---------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 07:34:21 | 07:38:36 | 07:42 | 27 | A-E | 98 |
| 14Apr93 | 09:09:16 | 09:12:15 | 09:14 | 5 | A-W | 99 |
| 14Apr93 | 17:08:30 | 17:12:31 | 17:16 | 14 | D-E | 104 |
| 14Apr93 | 18:42:13 | 18:45:55 | 18:49 | 10 | D-W | 105 |
| 15Apr93 | 07:41:06 | 07:45:31 | 07:49 | 69 | A-W | 114 |
| 15Apr93 | 17:15:04 | 17:19:32 | 17:23 | 41 | D-E | 120 |

| | | | | | | |
|----------|----------|----------|-------|----|-----|-----|
| 16Apr93 | 06:15:50 | 06:19:06 | 06:21 | 7 | A-E | 129 |
| 16Apr93 | 07:48:18 | 07:52:25 | 07:56 | 19 | A-W | 130 |
| *16Apr93 | 17:21:56 | 17:26:23 | 17:30 | 43 | D-W | 136 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Compiled by Dan Schultz, N8FGV
 Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
 /EX

SB SAREX@AMSAT \$STS-56.017
 STS-56 Worldwide Rise/Set Times, 4/14-16

Below are the rise and set times for STS-56 for selected worldwide cities over the next three days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

London, England
 STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 00:13:48 | 00:18:20 | 00:22 | 86 | A-W | 93 |
| 14Apr93 | 01:47:51 | 01:52:14 | 01:56 | 26 | A-W | 94 |
| 14Apr93 | 03:21:58 | 03:26:23 | 03:30 | 26 | D-E | 95 |
| 14Apr93 | 04:55:40 | 05:00:16 | 05:04 | 87 | D-W | 96 |
| 14Apr93 | 06:29:37 | 06:33:28 | 06:36 | 11 | D-W | 97 |
| 14Apr93 | 22:47:44 | 22:51:59 | 22:55 | 23 | A-E | 108 |
| 15Apr93 | 00:20:51 | 00:25:22 | 00:29 | 50 | A-W | 109 |
| 15Apr93 | 01:55:02 | 01:59:24 | 02:03 | 23 | D-W | 110 |
| 15Apr93 | 03:29:01 | 03:33:31 | 03:37 | 33 | D-E | 111 |
| 15Apr93 | 05:02:41 | 05:07:13 | 05:11 | 45 | D-W | 112 |
| 15Apr93 | 06:37:06 | 06:40:11 | 06:42 | 5 | D-W | 113 |
| 15Apr93 | 21:22:57 | 21:25:55 | 21:28 | 5 | A-E | 123 |
| 15Apr93 | 22:54:25 | 22:58:52 | 23:02 | 43 | A-E | 124 |
| 16Apr93 | 00:27:54 | 00:32:22 | 00:36 | 34 | A-W | 125 |
| 16Apr93 | 02:02:07 | 02:06:29 | 02:10 | 23 | D-E | 126 |
| 16Apr93 | 03:35:58 | 03:40:31 | 03:44 | 48 | D-E | 127 |
| 16Apr93 | 05:09:40 | 05:14:00 | 05:17 | 24 | D-W | 128 |
| *16Apr93 | 21:28:47 | 21:32:32 | 21:35 | 11 | A-E | 139 |
| *16Apr93 | 23:01:13 | 23:05:44 | 23:09 | 83 | A-E | 140 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Paris, France

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 00:14:03 | 00:18:34 | 00:22 | 56 | A-W | 93 |
| 14Apr93 | 01:48:19 | 01:52:36 | 01:56 | 20 | D-W | 94 |
| 14Apr93 | 03:22:28 | 03:26:50 | 03:30 | 23 | D-E | 95 |
| 14Apr93 | 04:56:09 | 05:00:45 | 05:04 | 86 | D-W | 96 |
| 14Apr93 | 06:30:10 | 06:33:55 | 06:37 | 10 | D-W | 97 |
| 14Apr93 | 22:47:44 | 22:52:07 | 22:56 | 33 | A-E | 108 |
| 15Apr93 | 00:21:12 | 00:25:39 | 00:29 | 35 | A-W | 109 |
| 15Apr93 | 01:55:32 | 01:59:48 | 02:03 | 19 | D-W | 110 |
| 15Apr93 | 03:29:31 | 03:33:59 | 03:37 | 30 | D-E | 111 |
| 15Apr93 | 05:03:10 | 05:07:41 | 05:11 | 42 | D-W | 112 |
| 15Apr93 | 21:22:31 | 21:25:58 | 21:28 | 8 | A-E | 123 |
| 15Apr93 | 22:54:33 | 22:59:03 | 23:03 | 67 | A-E | 124 |
| 16Apr93 | 00:28:19 | 00:32:41 | 00:36 | 25 | A-W | 125 |
| 16Apr93 | 02:02:37 | 02:06:55 | 02:10 | 20 | D-E | 126 |
| 16Apr93 | 03:36:27 | 03:41:00 | 03:45 | 46 | D-E | 127 |
| 16Apr93 | 05:10:10 | 05:14:28 | 05:18 | 22 | D-W | 128 |
| *16Apr93 | 21:28:36 | 21:32:37 | 21:36 | 15 | A-E | 139 |
| *16Apr93 | 23:01:27 | 23:05:58 | 23:09 | 64 | A-W | 140 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Tokyo

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 12:09:37 | 12:13:38 | 12:17 | 16 | A-E | 101 |
| 14Apr93 | 13:43:01 | 13:47:08 | 13:50 | 18 | A-W | 102 |
| 14Apr93 | 20:03:54 | 20:07:51 | 20:11 | 12 | D-E | 106 |
| 14Apr93 | 21:37:11 | 21:41:32 | 21:45 | 27 | D-W | 107 |
| 15Apr93 | 12:16:06 | 12:20:30 | 12:24 | 43 | A-E | 117 |
| 15Apr93 | 13:50:45 | 13:54:20 | 13:57 | 9 | A-W | 118 |
| 15Apr93 | 20:10:36 | 20:14:59 | 20:18 | 25 | D-E | 122 |
| 15Apr93 | 21:44:35 | 21:48:22 | 21:51 | 11 | D-W | 123 |
| *16Apr93 | 12:22:56 | 12:27:22 | 12:31 | 55 | A-W | 133 |
| *16Apr93 | 18:44:46 | 18:47:50 | 18:50 | 5 | D-E | 137 |
| *16Apr93 | 20:17:23 | 20:21:56 | 20:26 | 71 | D-E | 138 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Sydney

STS-56 Element Set GSFC-019

| date | rise | tca | set | el | geo | orbit |
|----------|----------|----------|-------|----|-----|-------|
| 14Apr93 | 00:53:54 | 00:58:04 | 01:01 | 20 | D-W | 93 |
| 14Apr93 | 07:16:01 | 07:19:18 | 07:22 | 6 | A-E | 97 |
| 14Apr93 | 08:48:44 | 08:53:13 | 08:57 | 62 | A-W | 98 |
| 14Apr93 | 23:27:17 | 23:31:36 | 23:35 | 32 | D-E | 108 |
| 15Apr93 | 01:01:35 | 01:05:14 | 01:08 | 10 | D-W | 109 |
| 15Apr93 | 07:22:31 | 07:26:31 | 07:30 | 13 | A-E | 113 |
| 15Apr93 | 08:55:55 | 09:00:06 | 09:03 | 20 | A-W | 114 |
| 15Apr93 | 23:34:05 | 23:38:31 | 23:42 | 73 | D-W | 124 |
| 16Apr93 | 07:29:08 | 07:33:32 | 07:37 | 30 | A-E | 129 |
| 16Apr93 | 09:03:25 | 09:06:49 | 09:09 | 7 | A-W | 130 |
| *16Apr93 | 22:08:30 | 22:12:06 | 22:15 | 10 | D-E | 139 |
| *16Apr93 | 23:41:12 | 23:45:27 | 23:49 | 24 | D-W | 140 |

*Landing scheduled for 11:33 UTC in Florida on orbit number 132

Compiled by Dan Schultz, N8FGV
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
/EX

Date: 14 Apr 1993 03:52:49 GMT
From: vtserf.cc.vt.edu!vtaix.cc.vt.edu!prasad@uunet.uu.net
To: info-hams@ucsd.edu

References <q6iX2B1w165w@inqmind.bison.mb.ca>, <1qevrf\$4t@hpscit.sc.hp.com>,
<1qf44aINN1l@rave.larc.nasa.gov>.cc.vt
Subject : Re: Cable TVI interference

In article <1qf44aINN1l@rave.larc.nasa.gov> watson@nimbus.larc.nasa.gov (Catherine Watson) writes:

>I also have a problem with Channel 19 (CNN) - I can often hear people's
>paggers and there are lines through the picture which come and go
>with the transmissions. I wrote to the local FCC office and they turned the
I am not sure if channel 19 is the culprit, 'cos we have CNN on 20 and
it has the same problem you described. Even when they had old #s (17),
I noticed that CNN had the same problem. I thought it was prob. due to
too many people in our area (students) watching news. Only other channel
I noticed such a thing was on 4. After getting the converter box,
I just slap that thing once and guess what, the lines are gone, for sometime.

Life must have been so simple during the stone age.....
Prasad

End of Info-Hams Digest V93 #459
